

S/081/63/000/003/018/056
B144/B186

AUTHORS: Mekhtiyev, S. D., Aliyev, A. F., Kambarov, Yu. G.,
Agayev, U. Kh.

TITLE: Study of catalytic chlorination of some cyclohexane hydrocarbons

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 427, abstract
3N18 (Azerb. khim. zh., no. 2, 1962, 19-23 [Summary in
Azerb.])

TEXT: Catalytic chlorination was studied in methyl (I), ethyl (II), isopropyl (III), cis-*o*-dimethyl (IV), and trans-*p*-dimethyl (V) cyclohexane in the presence of catalysts; these were: pumice treated with 5% HCl, AlCl₃, and tungsten chlorides applied to the pumice. The reacting vessel is a tube of molybdenum glass 20 mm in diameter, and 750 mm in length. To obtain monochlorides, a large excess of hydrocarbons is used. With a molar ratio hydrocarbon : Cl₂ of 3.2 - 3.4 : 1 and a hydrocarbon feeding rate of 1.2 g/min, the conversion into the

Card 1/4

Study of catalytic chlorination of ...

S/081/63/000/003/018/036
B144/B186

Chloride of I, II, and III on pumice varies between 12 and 20%, with a maximum degree of conversion of 30%. An increase in the temperature from 90 to 150°C has in the case of chlorination of I no significant effect on the degree of hydrocarbon conversion nor on the formation of monochloride. The same is observed in the chlorination of II at 120° and 150°C and of III at 120, 150 and 170°C. This apparent absence of a temperature effect on the degree of hydrocarbon conversion is explained by the fact that at those elevated temperatures at which the hydrocarbon exists in vapor phase, the time during which the products are in the reaction zone is markedly shorter. Under identical conditions, the formation of the monochloride related to the hydrocarbon converted decreases in the order I > II > III. Chlorination of I and II in the presence of AlCl₃ applied to the pumice at 120°C, and with a hydrocarbon feeding rate of 1.7 g/min with different component ratios, shows that this catalyst is more active than pure pumice. In this case, the yields of monochlorides decrease markedly; this is due to the intensification of the reaction of advanced chlorination of hydrocarbons under the effect of AlCl₃. An increase in the molar ratio

Card 2/4

Study of catalytic chlorination of ...

S/081/63/000/003/018/036
B144/B186

hydrocarbon : Cl₂ slightly enhances the yield of monochloride in the chlorination of I, and more noticeably in the chlorination of II. Chlorination of I - V in the presence of tungsten chlorides applied to the pumice, at 120°C, a hydrocarbon feeding rate of 1.7 g/min, and a hydrocarbon : Cl₂ ratio of 3.2 - 3.6 effects 12 - 15% conversion of hydrocarbons into chlorides with a maximum conversion of 30% and a yield of monochlorides of 52-59% of the theoretical value (related to the hydrocarbons converted), with the exception of III, for which the monochloride yield is 46-47%. Of the catalysts studied, tungsten chlorides have the most favorable effect on the formation of monochlorides. The constants of the monochlorides separated are indicated (the enumeration comprises: relevant cyclohexane, b. p. in °C/20 mm, n²⁰, d²⁰):

I, 52 - 60, 1.459 - 1.460, 0.975 - 0.978; II, 76 - 80, 1.466 - 1.467, 0.967 - 0.968; III, 79 - 84, 1.467 - 1.472, 0.972 - 0.974; IV, 70 - 74, 1.462 - 1.469, 0.957 - 0.961; V, 69 - 73, 1.457 - 1.463, 0.956 - 0.961.

It is concluded that photochemical chlorination is to be preferred to catalytic chlorination with regard to the degree of hydrocarbon conversion as well as to the yields of monochlorides. Moreover, catalytic

Card 5/4

Study of catalytic chlorination of ...

S/081/63/000/003/018/036
B144/B186

chlorination is stated to be easier from a technical point of view.
[Abstracter's note: Complete translation.]

Card 4/4

MEKHTIYEV, S.D.; PASHAYEV, T.A.; ISEYEVA, F.A.

Sulfuric acid alkylation of aromatic hydrocarbons by cyclohexene.
Azerb.khim.zhur. no.5:41-47 '62. (MIRA 16:5)
(Hydrocarbons) (Alkylation) (Cyclohexene)

MEKHTIYEV, S.D.; RZAYEV, M.I.; ABDULLAYEVA, L.R.; BRZHEZITSKAYA, L.M.

Isomerization of halo-substituted alkanes under the action of
aluminum chloride. Azerb.khim.zhur. no.5:85-89 '62. (MIRA 16:5)
(Paraffins) (Isomerization) (Aluminum chloride)

S/152/62/000/006/001/001
B126/B110

AUTHORS: Mekhtiyev, S. D., Brzhezitskaya, L. M., Sadykhova, F. N.

TITLE: Investigation of the reaction of ethylene condensation with monochlorides of butane and pentane

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 6, 1962, 61 - 66

TEXT: The object of these experiments was to obtain primary monochlor-substituted alkanes. The initial material used was tertiary amyl chloride, tertiary butyl chloride, isobutyl chloride and ethylene. Optimum conditions for the condensation of tertiary amyl chloride with ethylene were established as follows: temperature -50°C, at which a yield of 81% is obtained; amount of catalyst 9% of initial chloride; reaction period 1.5 hr. The influence of the molar correlation under these conditions was found to be such that the maximum yield occurs using an ample quantity of ethylene. The product of these condensation tests was a heptylchloride with a boiling range of 146.75 - 196.90°C. Optimum condensation occurred at 30°C, using 5% of catalyst in the case of tertiary butyl chloride with ethylene

Card 1/2

S/152/62/000/006/001/001

B126/B110

Investigation of the reaction...

(which gave a maximum yield of 79%) and using 10% of catalyst in the case of isobutyl chloride with ethylene. The condensation product was a hexyl-chloride with a boiling point of 116 - 117°C. There are 7 figures and 2 tables. The most important English-language reference is: Bawn CEH J. Inst. Petrol, v. XI, v. 46, No. 443, 1960.

ASSOCIATION: Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova
(Azerbaydzhan Institute of Petroleum and Chemistry imeni
M. Azizbekov)

SUBMITTED: January 19, 1962

Card 2/2

MEKHTIYEV, S.D.; SADYKHOV, Sh.G.; SOLDATOVA, V.A.

Dehydrochlorination of certain monochloroderivatives. Azerb.
neft. Khoz. 41 no.1:37-39 Ja '62. (MIRA 16:7)

(Hydrocarbons) (Hydrochlorine acid)

MEKHTIYEV, S.D.; SEIDOV, N.M.; BAKHSHIZADE, A.A.; KAMBAROV, Yu.G.

Production of terephthalic acid. Azerb.khim.zhur. no.4:33-39 '63.
(MIRA 17:2)

MEKHTIYEV, S.D.; NARIMANBEKOV, O.A.

Selective reduction of acrolein to allyl alcohol. Azerb.khim.zhur.
no.4:77-84 '63. (MIRA 17:2)

MEKHTIYEV, S.D.; ISMATLOV, A.G.; SAFAROV, I.G.

Condensation of the chlorides of p-olefin naphthenic acids
with ethylene in the presence of Al^{Cl₃}. v. rb. khim. zhur. no5.:
17-22 '63 (MIRA 17:8)

KAMBAROV, Yu.G.; MEKHTIYEV, S.D.; Prinimali uchastiye: SEROV, A.A.;
NAMESTNIKOVA, V.M.; DZHAZALIYEVA, R.D.; NAUMETS, A.M.

High-speed pyrolysis of the gasoline fraction in a pilot
plant. Khim. prom. no.5:346-348 My '63. (MIRA 16:8)

MUSAYEV, M.R.; VELIYEV, Sh.V.; KOSYKHIN, A.S.; MEKHTIYEV, S.D.

Composition of pentenes obtained in the dehydration of ~~ethyl~~
alcohols on aluminum oxide. Azerb.khim.zhur. no.6:29-36. '63.
(MIRA 17:3)

MEKHTIYEV, S.D.; PASHAYEV, T.A.

Hydrogenation of cyclohexyl-substituted aromatic hydrocarbons.
Azerb.khim.zhur. no.6:51-56 '63. (MIRA 17:3)

MAMEDOV, F.A.; ISMAILZADE, I.G.; ALIYEV, A.F.; MEKITIYEV, S.D.

Application of the Raman effect method for studying the composition
of monochloride fractions of the chlorination products of some
cyclohexane hydrocarbons. Dokl. AN Azerb. SSR 19 no.7:9-13 '63.
(MIRA 17:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

ACCESSION NR: AP4017570

S/0249/63/019/010/0019/0024

AUTHORS: Mekhtiyev, S. D.; Sadykhov, Sh. G.; Soldatova, V. A.

TITLE: Investigation on the synthesis of vinylsubstituted cyclane hydrocarbons

SOURCE: AN AzerbSSR. Doklady*, v. 19, no. 10, 1963, 19-24

TOPIC TAGS: cycloparaffins, naphthene, cyclane, cyclohexane, cyclohexane synthesis, monobromocyclohexane, 1, 1-ethylvinylcyclohexane, monochloroethylcyclohexane, ethylvinylcyclohexane, condensation, pyrolysis, ethylene, acetate, potassium acetate

ABSTRACT: The synthesis of 1, 1-ethylvinylcyclohexane (1-EVCH) on a monobromocyclohexane (MBCH) base and of ethylvinylcyclohexane (EVCH) on a monochloroethylcyclohexane (MCECH) base is reported. The synthesis of 1-EVCH was conducted in three stages: the condensation of ethylene with MBCH, the conversion of the condensation products into acetic ethers, and the pyrolysis of the ethers. The optimum condensation reaction took place in the presence of 6-7% AlCl₃, at a temperature range of minus 30-40°C for a period of 30 minutes, using a 1:2 molar ratio of MBCH to ethylene. This resulted in a 70-72% yield, which was then reacted with potassium acetate for 5-6 hours in a 1:1 molar ratio, at 180-200°C, under pressure up to 20

Card 172

ACCESSION NR: APL017570

atm. The final step was pyrolysis of the acetate at 500-520C, yielding 1-EVCH, the constants of which are given. The synthesis of EVCH was conducted on a KCECH base, by an analogous three-stage process. However, in this case the condensation of KCECH with ethylene was on a 1:1 molar basis. After the acetate and pyrolysis steps a product, the constants of which identified it as EVCH, was obtained. Orig. art. has: 2 formulas.

ASSOCIATION: Institut naftekhimicheskikh protsessov (Institute of Naphtha-Chemical Processes)

SUBMITTED: 26Jun63

DATE ACQ: 18March

ENCL: 00

SUB CODE: CH

NO REF Sov: 008

OTHER: 002

Card 2/2

MFKHTIYEV, S.D.; NARIMANBEKOV, O.A.

Mechanism of the vapor reduction of allyl alcohol to
n-propyl alcohol. Azerb. khim. zhur. no.1:31-35 '64.
(MIRA 17:5)

MEKHTIYEV, S.D.; SULEYMANOV, G.N.; MAGERRAMOVA, Z.Yu.; MAGERRAMOVA,
R.Yu.; MAMEDOVA, Sh.F.

Preparation of phthalimide by oxidizing ammonolysis of
o-xylene in a fluid catalyst bed. Azerb. khim. zhur.
no.1:77-80 '64. (MIRA 17:5)

MEKHTIYEV, S.D.; DALIN, M.A.; KAMBAROV, Yu.G.

Role of Russian and Soviet scientists in the development of
petrochemical science and industry in Azerbaijan. Azerb. khim.
zhur. no.3:3-10 '64. (MIRA 18:5)

KAMBAROV, Yu.G.; KAKHRAMAN)VA, A.T.; MEKHTIYEV, S.D.

Thermodynamic calculation of n-octane pyrolysis under pressure.
(MIRA 18:5)
Azerb. khim. zhur. no.3:111-118 '64.

BABAYEV, O.N.; MEKHTIYEV, S.D.; BAKISHVADE, A.A.; KAMBAROV, Yu. I.

Study of the codimerization of low-molecular cleftins. Azero.
khim. zhur. no.4:41-45 '64. (XII-12-3)

MEKHTIYEV, S.D.; SADYKHOV, Sh.G.; SOLDATOVA, V.A.

Synthesis of vinyl-substituted cyclohexane hydrocarbons. Azerb.
(MIRA 18:3)
khim.zhur. no.4:79-84 '64.

MEKHTIYEV, S.D.; MUSAYEV, M.R.

Dehydration of cyclohexanol and isomers of methylcyclohexanol
over Al₂O₃. Azerb. khim. zhur. no.5:19-22 '64. (MTRA 18:3)

MEKHTIYEV, S.D.; MAMEDOV, F.A.; ISMAILZADE, I.G.; ALIYEV, A.F.; AGAYEV, U.Kh.

Conformation of molecules of some monochloro-substituted
alkylcyclohexanes and their mixtures. Azerb. khim. zhur.
no.5-73-79 '64. (MIRA 18:3)

MEKHTIYEV, S.D.; ISMAYLOV, A.G.; SAFAROV, G.I.

Obtaining the acid chlorides of naphthenic acids. Neftakhimia 4
no.5:789-792 S-0 '64. (MIRA 12:1)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova.

MEKHTIYEV, S.D.; NARIMANBEKOV, O.A.

Vapor phase recovery of acrolein. Izv.vys.ucheb.zav.;
neft' i gaz 7 no. 1:59-60 '64. (MIRA 17:7)

1. Azerba,dzhanskiy institut nefti i khimii imeni M.
Azizbekova.

MEKHTIYEV, S.D.; LYUSHIN, M.M.

Alkylation of toluene with diisobutylene. Izv. vys. ucheb. zav.;
neft' i gaz 8 no.3:61-64 '65. (MIRA 18:5)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.

MEKHTIYEV, S.D.; PISHNAMAZZADE, B.F.; MAMEDOVA, R.M.; SHIKHALIYEVA, R.A.

Alkylation of α -chloromethyl alkyl ethers by cyclohexane. Dokl.
AN Azerb. SSR 20 no.2:15-19 '64. (MIRA 17:6)

1. Institut neftekhimicheskikh protsessov im. Yu.G.Mamedaliyeva
AN AzerSSR.

MUSAYEV, M.R.; KLYCHKOV, S.N.; MEKHTIYEV, S.D.

Dehydration of saturated alcohols on aluminum oxide. Dokl.
AN Azerb. SSR 20 no.8:27-29 '64. (MIRA 17:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR im.
Yu.G. Mamedaliyeva.

MIKHTIYEV, S.B.; BARAKEYEV, R.M.; AKHMEDOV, Sh.T.; TUMAILOVA, R.R.

Haloalkylation of methylcyclohexane with haloclaflins. Izv. Akad. Nauk Azerb. SSR no. 3:30-33 '65. (KIRZ, 2, 7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

L 60265-65 EPF(c)/EWP(f)/EMT(m)
ACCESSION NR: AP5021056

PC-4/Pr-4 JAJ/RM

UR/0316/64/000/004/0041/0045

24

B

AUTHOR: Babayev, O. N.; Mekhtiyev, S. D.; Bakhshizade, A. A.; Kambarov, Yu. G.

TITLE: Investigation of reactions of codimerization of low-molecular olefins.
Communication 1. Codimerization of ethylene with propylene

SOURCE: Azerbaydzhan'skiy khimicheskiy zhurnal, no. 4, 1964, 41-45

TOPIC TAGS: ethylene, propylene, catalysis

Abstract: This article presents the results of one of the stages in a detailed study of the joint dimerization of low-molecular olefins in an effort to reveal the conditions of formation of olefinic hydrocarbons and to seek ways to simplifying the process: production of low-molecular olefins by joint dimerization of ethylene and propylene. The reaction was studied in the presence of triisobutylaluminum, and the possibility of producing dimers of ethylene and propylene and their codimer in the presence of triisobutylaluminum in one step without

and their codimer in the presence of triisobutylaluminum in one step without the use of a cocatalyst was demonstrated. It was established that at temperatures of the order of 170-190°C under a pressure not over 40 atm and an ethylene:propylene ratio of 1:4-1:2 in the presence of 10-15% of a catalyst with respect to the weights of ethylene and propylene, the conversion of the

Card 1/2

L-60265-65

ACCESSION NR: AP5021066

olefins comprises 70-90%. About 50% of the initial components are converted to hexenes, 20-25% to amylenes. Experiments with reuse of the catalyst indicated that part of the initial olefins are consumed for the replacement of isobutylene in the triisobutylaluminum. A small quantity of alpha-butylene (2-5%) and about 11-20% of olefins with C₇ or higher are formed.

(1-5%) and about 11-20% of clarins with C₇ or higher are formed.
Orig. art. has 1 figure, 3 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: OO

ENCL: OO

SUB CODE: FP, GC

DD REF SOV: OO2

OTHER: OO4

JPR3

Card 2/2

MEKHTIYEV, S.D.; RIZAYEV, R.G.; NOVRUZOVA, A.S.

Oxidative ammonolysis of p-tert-butyltoluene. Dokl. AN Azerb.
SSR 21 no.5:17-19 '65. [YCPA 12;6]

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MEKHTIYEV, S.D.; SHARIFOVA, S.M.; SMIRNOVA, V.P.

Method of separating mixtures of isophthalonitrile and terephthalonitrile.
Azerb. khim. zhur. no.1:31-34 '65.
(MIRA 18:7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MEKHTIYEV, S.D.; SULEYMANOV, G.N.; ALIYEV, R.G.

Synthesis of dimethylterephthalate on a terephthalonitrile base. Azerb.
khim. zhur. no.1:53-56 '65. (MIRA 18:7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

L 20315-66 EWT(m)/EWP(j) RM

ACCESSION NR: AP5018350

UR/0316/65/000/002/0018/0023

AUTHOR: Mekhtiyev, S. D.; Rizayev, R. G.; Kambarov, Yu. G.; Novruzova, A. Sh.

TITLE: Oxidative ammonolysis of toluene

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 2, 1965, 18-23

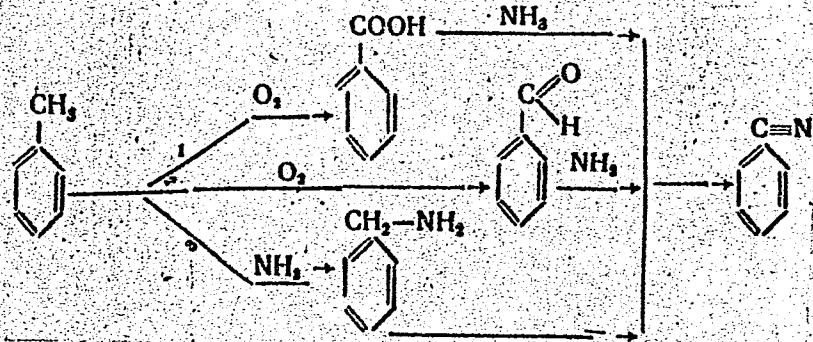
TOPIC TAGS: oxidation, ammonolysis, toluene, catalyst carrier

ABSTRACT: The purpose of this work was a detailed investigation of the oxidative ammonolysis of toluene on relatively inexpensive catalysts in order to select the optimum conditions for the formation of benzonitrile with high yield. The catalysts consisted of 6% V₂O₅ and 2% MoO₃ deposited on fused Al₂O₃ with specific surface 93.5 m²/g, measured by the BET method. It was found that increase of the ratio of air to toluene from 2 to 12 moles results in increase of the yield. This apparently results from two parallel and independent reactions which result in the production of benzonitrile according to the following scheme:

Card 1/3

L 20315-66

ACCESSION NR: AP5018350



Since the rate of the oxidative ammonolysis reaction of alkylaromatic hydrocarbons exceeds significantly the rate of direct nitrile formation upon increasing the supply of air, it must proceed by paths 1 and 2. The increase of the ratio of NH_3 to toluene from 2.3 to 4.5 moles/mole significantly increases the conversion of toluene and the yield of benzonitrile. Increase of this ratio to 15 moles/mole resulted in a large decrease of the conversion of toluene. The optimum temperature of the

Card 2/3

L 20315-66

ACCESSION NR: AP5018350

3

ammonolysis of toluene was found to be 380-400° C. The optimum yield was 87%. "The authors wish to express their gratitude to G. P. Korneychuk of the IFKh AN Ukrainian SSR, for the determination of the surface area of Al_2O_3 carrier and to V. L. Khodzhayeva for obtaining IR spectra of the synthesized products." Orig. art. has: 5 figures.

ASSOCIATION: INKhP AN Azerb. SSR

SUBMITTED: 12Ncv64

ENCL: 00

SUB CODE: OC, GC

NO REF Sov: 004

OTHER: 012

Card 3/3 BK

MEKHTIYEV, S.D.; RAMADANZADE, Z.M.; BRZEZITSKAYA, L.M.; KAS'YANOV, V.V.;
MAMEDOVA, Sh.K.

Production of tertiary octylbenzoic acid by the liquid phase
oxidation of octyltoluene with atmospheric oxygen. Aserb. khim.
(MIRA 18:12)
zhur. no. 2:51-54 '65.

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova.
Submitted January 19, 1965.

MEKHTIYEV, S.D.; MAMEDOV, Z.F.; NARIMANBEKOV, O.A.; RYABINA, L.V.

Cyanoethylation of acetaldehyde in the presence of strongly
basic ion exchanges. Azerb. khim. zhur. no.3:37-43 '65.
(MIRA 19:1,
1. Institut neftekhimicheskikh protsessov AN AzerSSR i Azer-
baydzhanskiy institut nefti i khimii im. M. Azizbekova.

MEKHTIYEV, S.D.; SHARIFOVA, S.M.; SMIRNOVA, V.P.

Esterification of terephthalic and isophthalic acids by
primary aliphatic alcohols. Azerb. khim. zhur. no.3:67-72
'65. (MIRA 19:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MEKHTIYEV, S.D.; BRZHEZITSKAYA, L.M.; KULIYEVA, F.T.

Condensation of tertiary butyl chloride with allyl chloride.
Azerb.khim.zhur. no.4:14-16 '65.

(MIRA 18:12)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.
Submitted February 1, 1965.

MEKHTIYEV, S.D.; RIZAYEV, R.G.; KASIMOV, R.; KAMBAROV, Yu.G.

Mass spectrometric study of some aromatic nitriles, Azerb.khim.zhur.
no.4:70-74 '65. (MIRA 18:12)

I. Institut neftekhimicheskikh protsessov AN AzSSR. Submitted
January 23, 1965.

L 11530-66 ENT(m)/ENG(m)/EWP(f)/T WW/DS/RM
 ACC NR: AP6005105 SOURCE CODE: UR/0316/65/000/005/0006/0009

AUTHOR: Mekhtiyev, S. D.; Sharifova, S. M.; Smirnova, V. P.; Babayeva, N. L.;
 Mamedova, Sh. F.

27

B

ORG: INKhP AN AzerSSR

TITLE: Investigation of the quantitative isomer composition of mixtures of tere- and
 isophthalonitriles

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 5, 1965, 6-9

TOPIC TAGS: polarography, phthalonitrile, quantitative analysis

ABSTRACT: In connection with the increased production of phthalonitriles, a need exists for convenient methods of determination of tere- and isophthalonitriles. This work deals with the quantitative polarographic determination of the above isomers. In dropping-mercury-electrode experiments conducted against a 0.05 N LiCl background the basic reduction curves of the two isomers were shown to be of the following type (see Fig. 1):

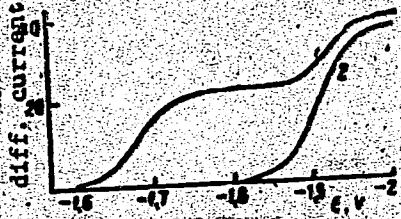


Fig. 1. Polarogram of terephthalonitrile (1) and isophthalonitrile (2) against a background of 0.05 N LiCl, C = 0.26 milli-mole/liter

Card 1/2

L 11530-66
ACC NR. AP6005105

The pronounced plateaus facilitate determination of the diffusion current. The calibration curve was based on the first wave of terephthalonitrile, since its second wave tends to overlap with the first wave of isophthalonitrile. Quantitative determinations by this method differ by only 2-4% from those obtained by melting point determinations. The two methods are thus mutually verifying. Orig. art. has: 4 figures [VS] and 1 table.

SUB CODE: 07 SUBM DATE: 29Jun65/ ORIG REF: 007/ ATD PRESS: 4199

Card X 2/2

L 39998-66 EWT(m)/EWP(j)/T IJP(c) WH/JW/JWD/RM

ACC NR: AP6018897

(A)

SOURCE CODE:

UR/0152/66/000/001/0059/0062 4/

B

AUTHOR: Ismailov, A. G.; Mekhtiyev, S. D.; Salimova, B. A.ORG: Azerbaydzhan Petroleum and Chemistry Institute im. M. Azizbekov (Azerbaydzhan-skiy institut nefti i khimii)TITLE: Esters of petroleum naphthenic acids with mono- and polyhydric alcohols and phenols

SOURCE: IVUZ. Neft' i gaz, no. 1, 1966, 59-62

TOPIC TAGS: ester, phenol, alcohol, esterification, plasticizer, PETROLEUM

ABSTRACT: Esters formed by petroleum naphthenic acids with ethylene chlorohydrin, allyl alcohol, cyclohexanol, benzyl alcohol, di-triethylene glycol, glycerin, pentaerythritol, alkyl phenols, phenol, diphenylolpropane, hydroquinone, naphthols, etc. were synthesized by reacting these alcohols and phenols with acid chlorides. The effect of solvents and ratio of reactants on the yield and direction of the reactions was studied. The esterification of phenols was easier, and narrower fractions of the target products were obtained in higher yields than in the case of alcohols. Preliminary tests of the synthesized esters for their plasticizing properties in polyvinyl chloride (PVC) resins and nitrocellulose showed that diethylene glycol esters of petroleum naphthenic acids in a 1:1 mixture with dibutyl phthalate in the proportion of 60 pts. by wt. of ester mixture per 100 pts. of PVC behave satisfactorily, and the

Card 1/2

UDC: 661.726.001.5:547.657

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001033320014-4

L 1998d-65

ACC NR: AP6018897

films have a good external appearance and physicomechanical properties. Orig. art.
has: 6 tables.

SUB CODE: 07/ SUBM DATE: 09Aug65/ ORIG REF: 001

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001033320014-4"

CA

22

Petroleum prospecting by gas sampling. Sh. R. Mekhlis, *Azernadzhan Nefitsy i Khim.* 1941, No. 17-18-19; *Khim. Referat. Zher.* No. 4, 7-8, 30 (1941).—M. discusses the method of gas sampling proposed by Solopov for petroleum prospecting. The chief advantage of the method is that the gas diffusing from the petroleum field does not rise in a strictly vertical direction. The presence of hydrocarbons in the soil atmosphere resulting from the decompos., of org. matter must be considered in taking gas samples. Although gas sampling is a valuable method for petroleum prospecting, its practical application requires further studies. W. R. H.

APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

6-270 75-4274

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320014-4"

PA 38T49

MEKHTIYEV, SH. F.

USSR/Geology
Volcanology
Rock Formation

Nov 1947

"Geological Development of Talysh Volcanic Rock," Sh.
F. Mekhtiyev, Azerbaijani Petroleum Expedition,
Soviet for Investigation of Productive Forces, Acad-
emy of Sciences of the USSR, 3 pp

"Dok Ak Nauk" Vol LVIII, No 4

Volcanic rock in this area is of four distinct types:
1) lava flows and basic magma cover; 2) tuff-lava
formations; 3) dikes, veins, sills; and 4) separate
extrusive deposits. Briefly describes formation of
each type of deposit. Submitted by Academician D. S.
Belyankin, 21 May 1947.

38T49

MEKHTIYEV, SH. F.

PA 38T38

USSR/Geology

Geophysical Prospecting

Nov 1947

"Geotechnical Position of Talysh," Sh.F. Mekhtiyev,
Academy of Sciences of the Azerbaijan SSR, Azerbai-
jhan Petroleum Expedition, Soviet for Investigation
of Productive Forces, Academy of Sciences of the
USSR, 24 pp

"Dok Ak Nauk" Vol LVIII, No 5

Short description of the geotechnical status of the
Talysh region which most scientists have classified
as part of the Minor Caucasus. Submitted by Academician
D. S. Belyankin, 21 May 1947.

38T38

MUKHTYEV, Sh. F.

Mukhtyev, Sh. F. and Saryan, A. S. "The oil fields of the Caspian Sea and the vertical distribution of oil on site.", Zekhij (Akad. nauch Azernay m. SSR), 1941, no. 12, p. 51-54, (Issue in American and -Biblio: biblias).

So: U-1261, 16 As 01 51, (Letopis 'Zhurnal 'nyx Statet, no. 12, 1941).

NEKHTIEV, Sh. F.

23983 NEKHTIEV, Sh. F. Ovisyachikh zalezakh nefti v nizhen otsele produktivnoy tolshchi Apsheronskogo poluostrova. Izvestiya Akad. nauk. nauk Azerbayjzh. SSR, 1949, No. 7, S. 3-7. -- Rezymue na azerbayjzh. Yaz.

SO: Letopis, No. 32, 1949.

MEKHTIYEV, Sh.F.

BELYANKIN, D.S., akademik, glavnnyy redaktor; AZIZBEKOV, Sh.A., otvetstvennyy redaktor; KASHKAY, M.A., otvetstvennyy redaktor; ABRAMOVICH, M.V., redaktor; AZIZBEKOV, Sh.A., redaktor; ALIYEV, A.G., redaktor; ALIYEV, M.M., redaktor; ALIZADE, K.A., redaktor; APRESOV, S.M., redaktor; AKHMEDOV, G.A., redaktor; BAYRAMOV, A.S., redaktor; GORIN, V.A., redaktor; ZHABREV, D.V., redaktor; MEKHTIYEV, Sh.F., redaktor; SOLOVKIN, A.N., redaktor; SULTANOV, A.D., redaktor; TEFAN, V.Ye., redaktor.

[Geology of Azerbaijan; petrography] Geologija Azerbaidzhana. Petrografia. Glav.red. D.S.Beliankin. Otvetstvennye redaktory: Sh.A. Azizbekov, M.A.Kashkai. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1952. 827 p. [Microfilm] (MIRA 8:2)

1. Akademija nauk Azerbaydzhanskoy SSR. Institut geologii.
(Azerbaijan--Petrology) (Geology, Stratigraphic)

MEKHTIYEV, Sh F.

May-June '63

USSR/Geology - Petroleum and Gas

"Problem of the origin of oil, Formation of Deposits, and the Genesis of Diaper Cells,"

Sh F. Mehtiyev

Iz Ak Nauk SSSR, Ser. Geol., No 3, pp 47-59

Surveys various theories on the origin of petroleum. Defends view that there is no genetic relation between diaper cells and petroleum deposits.

275 : 57

MEKHTIYEV, Sh. F.

"Some Criteria for Judging the Authigenicity of the Alloauthigenicity of Dispersed Bitumens," Sh. F. Mekhtiyev and T.M.Digurova, Inst. of Geol. im. Gubkin, AS ~~SSSR~~
Azer SSR, DAN SSSR, Vol. 90, No. 5, pp 861-863, Jun 53.

On the basis of study conducted in the Caucasus, the author gives six specific characteristics of dispersed bitumens. Defines authigenous bitumens as those produced in a given layer or formed in clays and subsequently mixed with sandy rocks of the same layer. Presented by Acad. S.I.Mirinov 20 Apr 53. 260T54

MEKHTIYEV, Sh.F.; ZAVRIYEV, V.G.; UDALYY, A.M., red.

[Azerbaijan, treasure house of oil] Azerbaidzhans sokrovishch-nitsa nefti. Baku, Aznefteizdat, 1954. 130 p. (MIRA 15:7)
(Azerbaijan--Petroleum geology)

MEKHTIYEV, Sh.F., ZAVRIYEV, V.G.; UDALYY, A.M., redaktor.

[Azerbaijan, petroleum treasure house] Azerbaidzhan-sokrovishch-nitsa nefti. Baku, Aznefteizdat, 1954. 130 p. (MLRA 8:3)
(Azerbaijan--Economic geography)(Petroleum)

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.; TAMRAZYAN, G.P.

On the regularity of distribution of bitumens in the lower formation
of the productive stratum in Apsheron Province. Izv. AN Azerb. SSR
no.9:23-32 S'54.

(MLRA 8:11)

(Apsheron Peninsula--Petroleum geology)

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.

Data on the bituminosity of certain complexes in Azerbaijanian
deposits. Trudy Inst.geol.AN Azerb.SSR 15:73-134 '54 (MLRA 9:1)
(Azerbaijan--Bitumen)

MEKHTIYEV, Sh.F., professor; PEYVE, A.V.; KHAIN, V.Ye., professor

Conference on the tectonics of the alpine geosynclinal region of the
southern U.S.S.R. Izv.AN SSSR. Ser. geol. 20 no.3:156-160 My-Je '55.
(MIRA 8:9)

1. Institut geologii Akademii nauk AzSSR (for Mekhtiyev)
(Caucasus--Geology, Structural)

MEKETIYEV, Sh.F.

Genetic classification of caustobioliths. Neft.khoz. 33 no.2:61-66
F '55. (MIRA 8:4)
(Petroleum geology)

Mekhtiyev, Sh. F.

USSR/Geology

Card 1/1 Pub. 22 - 40/51

Authors : Mekhtiyev, Sh. F., and Tarnayyan, G. P.

Title : Distribution of petroleum and gas along the Apsheron peninsula in relation to the lithology of the included rocks

Periodical : Dok. AN SSSR 101/5, 933-936, Apr 11, 1955

Abstract : Lithological data are presented regarding the distribution and changes in quality and specific weight of petroleum and natural gases obtained from Apsheron peninsula resources (Azerb-SSR). Twelve USSR references (1920-1954). Table; graph.

Institution : Acad. of Sc., Azerb. SSR, The I. M. Gubkin Institute of Geology

Presented by : Academician S. I. Mironov, December 3, 1954

MEKHTIYEV, Sh. F.

USSR/ Geology - Petroleum

Card 1/1 Pub. 22 - 35/49

Authors : Mekhtiyev, Sh. F. and Aliyev, S. A.

Title : The magnitude of the geothermal stage of petroleum resources in Azerbaijan

Periodical : Dok. AN SSSR 102/1, 141-143, May 1, 1955

Abstract : Geological data are presented on the geothermal stage of Azerbaijan's petroleum resources. The data were obtained by measuring the temperatures in operating and abandoned oil wells. Three Russian and USSR references (1912-1951). Tables.

Institution : Acad. of Sc., Azerb. SSR, Inst. of Geol. im. I. M. Gubkin

Presented by : Academician D. I. Shcherbakov, December 3, 1954

SHIKHALIBEYLI, E.Sh.; MEKHTIYEV, Sh.F., redaktor; VASILEVSKIY, Ya.B.,
redaktor izdatel'stva

[Geological structure and development of the Azerbaijani part of the
southern slope of the Greater Caucasus] Geologicheskoe stroenie i
razvitiye azerbaidzhanskoi chasti iuzhnogo sklona Bol'shogo Kavkaza.
Baku, Izd-vo Akademii nauk Azerbaidzhanskoi SSR, 1956. 222 p.
(Caucasus--Geology, Structural) (MIRA 10:1)

NEKRHTIYEV, Sh. F.

KLENNOVA, M.V. prof.; SOLOV'YEV, V.F.; ARTYUNOVA, N.M.; POPOV, P.G.; YASTREBOVA, L.A.; BATURIN, V.P.; KOPYLOVA, Ye.K.; TEGDOROVICH, G.I., redaktor; TOPCHIYEV, A.V., akademik, redaktor; MIRONOV, S.I., akademik, redaktor; ALIYEV, M.M., redaktor; AKHMEDOV, G.A., redaktor; VARENTSOV, M.I., redaktor; DMITRIYEV, Ye.Ya., redaktor; DOLGOPOLOV, N.N., redaktor; IL'IN, A.A., redaktor; MEHRTIYEV, Sh.F., redaktor; MOZESON, D.L., redaktor; PUSTOVALOV, L.V., redaktor; YOMIN, A.V., redaktor; MOSCOV, G.I., redaktor; KISELEVVA, A.A., tekhnicheskiy redaktor

[Recent sediments of the Caspian Sea] Sovremennoye osadki Kaspiiskogo moria; Moskva, Izd-vo Akademii nauk SSSR, 1956. 302 p. (MIRA 9:3)

1. Deystvitel'nyy chlen AN AzSSR (for Aliyev) 2. Chlen-korrespondent AN SSSR. (for Varentsov, Pustovalov) 3. Nachal'nik morskogo otryada Azerbaydzhanskoy neftyanoy ekspeditsii SOAPS AN SSSR (for Klenova)
(Caspian Sea)

MEKHTIYEV, Sh.F.; GORIN, V.A., redaktor; DOLGOV, V.I., redaktor; PEVZNER,
M.I., tekhnicheskiy redaktor

[Problems in the origin of petroleum and the formation of petroleum-bearing strata in Azerbaijan] Voprosy proiskhozhdeniya nefti i formirovaniia neftianykh zалежей Azerbaidzhana. Baku, Izd-vo Akademii nauk Azerbaidzhanskoi SSR, 1956. 317 p. (MLRA 10:3)
(Azerbaijan---Petroleum geology)

ALIYEV, M.M., redaktor; MEKHTIYEV, Sh.F., redaktor; MIRDZHAFAROV, A.,
tekhnicheskiy redaktor

[Proceedings of a conference on the tectonics of the alpine
geosynclinal region of the southern U.S.S.R.] Trudy soveshchaniya
po tektonike al'piiskoy geosinklinal'noy oblasti iuga SSSR. Baku,
Izd-vo Akademii nauk Azerbaidzhanskoi SSR, 1956. 377 p. (MIRA 9:10)

1. Vsesoyuznoye soveshchaniya po tektonike al'piiskoy geosinklinal'-
noy oblasti Iuga SSSR, Baku, 1954.
(Geology, Structural)

MEKHTIYEV, Sh.F.; TAMRAZYAN, G.P.

Structure and development of the earth's crust. Trudy Inst. geol. AN
Azerb. SSR 17:90-102 '56. (MIRA 10:4)
(Geology)

MEKHTIYEV, Shafayat Farkhad oglu, professor; ABRAMOVICH, M.V., professor,
redaktor; GOMCHAROV, I.A., tekhnicheskiy redaktor

[Importance of oil pools in Mezoic deposits to world petroleum
industry] Znachenie zalezhei nefti, sviazannykh s mezozoiskimi
otlozheniiami, v mirovoi dobyche nefti. Baku, Azerbaidzhanskoe
gos.izd-vo neft. i nauchno-tekhn.lit-ry, 1957. 39 p. (MLRA 10:9)

1. Chlen-korrespondent Akademii nauk Azerbaydzhanской SSR (for
Mekhtiyev)
(Petroleum geology)

MEKHTIYEV, Sh.F., prof.; SULEYMANOV, D.M., red.

[Petroleum resources in the Caspian Sea] Neftianye bogatstva Kaspiiskogo moria. Baku, 1957. 42 p. (Azerbaidzhanskoe obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanii. Ser.2, no.1) (MIRA 11:6)

1. Deystvitel'nyy chlen Obshchestva po rasprostraneniyu politicheskikh i nauchnykh znanii, chlen-korrespondent Akademii nauk Azerbaydzhanskoy SSR (for Mekhtiyev)
(Caspian Sea--Petroleum)

MEKHTIYEV, Sh.F.

Formation of the salt composition of the waters of the Kirmaki
series. Geol. nefti 1 no.6:58-60 Je '57. (MIR 10:8)
• (Apsheron Peninsula--Oil well brines)

MEKHTIYEV, Sh.F.

3(5)

PHASE I BOOK EXPLOITATION SOV/1363

Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil. Azerbaydzhanskaya neftyanaya ekspeditsiya, 1946-1948.

Voprosy geologii Talysha (Problems in the Geology of the Talysh Range) Moscow, Izd-vo AN SSSR, 1958. 151 p. (Series: Its: Trudy) 1,200 copies printed.

Ed. of Publishing House: Il'ina, N.A.; Tech. Ed.: Novichkova, N.D.; Editorial Board of Series: Topchiyev, A.V., Academician (Chairman of the Board); Mironov, S.I., Academician; Aliyev, M.M., Active Member, Azerbaydzhan SSR Academy of Sciences; Akhmedov, G.A.; Varentsov, M.I., Corresponding Member, USSR Academy of Sciences; Dmitriyev, Ye.Ya. (Deputy Resp. Ed.); Dolgopolov, N.N.; Il'in, A.A.; Mekhtiyev, Sh.F., Corresponding Member, Azerbaydzhan SSR Academy of Sciences; Mirchink, M.F.; Mozeson, D.L.; Pustovalov, L.V., Corresponding Member, USSR Academy of Sciences (Resp. Ed.): Rengarten, V.P.; Corresponding Member, USSR Academy of Sciences; Fomin, A.V.

PURPOSE: This book is intended for field geologists, stratigraphers, petroleum geologists and related specialists.

COVERAGE: This collection of articles was prepared on the basis of numerous field and laboratory studies of the Talysh Range area. Combined methods of simul-

Card 1/4

Problems in the Geology (Cont.)

SOV/1363

taneously studying stratigraphic, tectonic, volcanic and paleogeographic conditions where employed to ascertain the oil bearing possibilities of the described area. One of the parties, led by V.P. Rengarten, accomplished detailed traversing for a structural study of the Talysh Range; a second party, headed by K.A. Alizade, completed a paleontological and stratigraphic study of the same area. As a result of this procedure the geologists were able to identify 9 stratigraphic units ranging from the Paleocene to the base of the Middle Miocene, inclusive. The units, with an accumulated thickness of 7-10,000 m, constitute a genetically acceptable Pontic-Caspian tectonic zone. The main trends in the Talysh structural setting are expressed in the Talysh anticlinorium, the Yardymlinskiy synclinorium, the Alashar-Buravarskiy anticlinorium, and the Astrakhan-Bazar synclinorium disappearing under the sediments of the Caspian plains. The stratigraphy of the entire complex is studied in detail. The articles are accompanied by tables, maps and diagrams. There are 66 references, of which 64 are Soviet and 2 German.

TABLE OF CONTENTS:

Rengarten, V.P. Geological Structure of the Talysh Range	3
Introduction	3
History of the geological studies made on the Talysh Range	4
Card 2/4	

Problems in the Geology (Cont.)

SOV/1363

General stratigraphic distribution	9
History of the geological development of the Talysh Range	24
Southern Talysh. Stratigraphy of Tertiary sediments	30
Conditions of deposition of Talysh Cretaceous sediments	38
Morozova, V.G. Stratigraphy and Certain Characteristics of the Geological	
History of Central Talysh	43
Configuration of deposited beds	43
Stratigraphy	45
Volcanism	92
Conclusions	94
Mekhtiyev, Sh.F., A.S. Bayramov. Geological Structure of Northern Talysh	
Brief general description of the region	96
Stratigraphy	96
Tectonics	103
History of geological development	105
Mekhtiyev, Sh.F., K.M. Sultanov. Neogene of the Talysh Range	
Miocene	110
Pliocene	111
Card 3/4	125

Problems in the Geology (Cont.)

SOV/1363

Alizade, K.A. Stratigraphy of Talysh Paleogene Sediments Based on Mollusk Fauna 126

Khalilov, D.M. Microfaunal stratigraphy of Talysh Tertiary sediments 136
Introduction 136
Stratigraphy of Talysh Tertiary sediments 138
General characteristics of Talysh Tertiary microfauna 147

Bibliography 150

AVAILABLE: Library of Congress

MM/sfm
4-3-59

Card 4/4

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.; POTAPOVA, V.I.; ABRAMOVICH, M.V., red.;
VASILEVSKIY, Ya.B., red.izd-va; AGAYEVA, Sh.A., tekhn.red.

[Organic components of sedimentary rocks in Azerbaijan] Orga-
nicheskie komponenty osadochnykh porod Azerbaidzhana. Baku,
Izd-vo Akad.nauk Azerbaidzhanskoi SSR, 1958. 265 p. (MIRA 12:6)
(Azerbaijan--Rocks, Sedimentary) (Organic matter)

MEKHTIYEV, Sh F.

3(5) 30(5)

PHASE I BOOK EXPLOITATION

SOV/1267

Akademiya nauk Azerbaydzanskoy SSR. Institut geografii

Sovetskiy Azerbaydzhhan (Soviet Azerbaydzhhan) Baku, Izd-vo AN
Azerbaydzanskoy SSR, 1958. 759 p. 10,000 copies printed.

Ed.: Aliyev, M.M., Vekilov, Samed Vurgun, Deceased, Mekhtiyev, Sh.F.,
Alampiyev, P.M., and Shikhlynskiy, E.M.; Ed. of Publishing House:
Bagdatlislvili, D.D.; Tech. Ed.: Pogosov, V.A.

PURPOSE: The book is intended for the general reader.

COVERAGE: This is a thorough survey of the geography of Azerbaydzhhan,-
natural resources, industrial potential, and rural economy. The
book is made up of a collection of articles on the above subjects,
written by authorities in the respective fields. In addition to
economic aspects, the book provides a broad historical background
and discusses present-day cultural and social life in Azerbaydzhhan.
The book is richly illustrated, showing many facets of industrial
activity. Statistics on areas, population, and production are
given; 35 maps accompany the text. There are no references.

Card 1/7

Soviet Azerbaydzhhan

SOV/1267

TABLE OF CONTENTS:

Preface

5

Introduction

/

PART I. NATURE

Ch. I. Geological Structure and Geological History of Azerbaydzhhan (<u>Mekhtiyev Sh.F., Corresponding Member, Azerbaydzhhan Academy of Sciences</u>)	11
Ch. II. Topography (Antonov B.A., Candidate in Geography)	28
Ch. III. Mineral Resources (Aliyev M.M. and Kashkayev M.A., Academicians, Azerbaydzhhan Academy of Sciences)	49
Ch. IV. Climate (Shikhinskiy E.M., Candidate in Geography)	62

Card 2/7

Soviet Azerbaydzhan

SOV/1267

Ch. V. Hydrography (Rustamov, S.G., Candidate in Geography)	105
Ch. VI. Caspian Sea (Suleymanov Dzh.M., Doctor, and Madat-zade A.A., Candidate in Physics and Mathematics)	132
Ch. VII. Soil Cover (Salayev E.A., Candidate in Geology and Mineralogy)	143
Ch. VIII. Vegetation Cover (Prilipko L.I., Doctor in Biology and Akhundov K.F., Candidate in Biology)	152
Ch. IX. Fauna (Alekperov A.M., Candidate in Biology)	175
Ch. X. Physico-Geographic Regions (Shikhlinskiy E.M. and Zavriyev V.G., Candidates in Geography)	199

PART III. HISTORY AND CULTURE

Ch. XI. Historical Sketch (Guliyev A.N., Kaziyev M.A., and Tokarzhevskiy Ye.A., Candidate in History)	219
---	-----

Card 3/7

Soviet Azerbaydzhan

SOV/1267

Ch. XII. Population (Kuliyev A.G., Docent)	305
Ch. XIII. Education (Dzhabrailbeyli Dzh.A., Candidate in Pedagogics)	323
Ch. XIV. Development of Science in the Soviet Azerbaydzhan (Aliyev M.M., Academician, Azerbaydzhan Academy of Sciences)	335
Ch. XV. Literature (Gulizade M.Yu., Candidate in Philology)	363
Ch. XVI. Architecture (Salamzade A.R., Candidate in Architecture)	401
Ch. XVII. Fine and Applied Arts (Gaziyev A.Yu., Candidate in Technical Sciences)	422
Ch. XVIII. Music (Gadzhibekov S.I. Stalin Prize Holder and Zeydman B.I., Professor)	453

Card 4/7

Soviet Azerbaydzhan

SOV/1267

Ch. XIX. Theatre (Kasimov K.A., Candidate in History) 468

PART III. NATIONAL ECONOMY

Ch. XX. General Outline of National Economy (Alampiyev P.M., Doctor in Economics)	497
Ch. XXI. Industry (Roslyakov I.A.)	509
Ch. XXII. Fishing and Fish Canning (Derzhavin A.N., Academician, Azerbaydzhan Academy of Sciences)	545
Ch. XXIII. Agriculture (Radziyevskiy V.A.)	553
Ch. XXIV. Transportation and Communication (Roslyakov I.A.)	614
Ch. XXV. Mingechaur Hydroelectric Development (Aliyev M.M., Academician, Azerbaydzhan Academy of Sciences)	625
Ch. XXVI. Economic Regions (Rayons) of the Azerbaydzhan SSR (Alampiyev P.M., Doctor in Economics)	633

Card 5/7

Soviet Azerbaydzhani

SOV/1267

1. Apsheron (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 637
2. Kirovabad-Dashkesan (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 659
3. Kura-Araks (Nazirova B.T., Candidate in Geography) 675
4. Lenkoran'-Astara (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 693
5. Nukha-Zakataly (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 705
6. Kuba-Khachmas (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 714
7. Shelmakha-Ismailly (Madat-zade A.A., Candidate in Physics and Mathematics and Zeynalov M.I., Candidate in Geography) 725
8. Kel'badzhar-Kubatly (Madat-zade A.A., Candidate in Physics and Zeynalov M.I., Candidate in Geography) 732
9. Nakhichevanskaya ASSR (Nazirova B.T. and Izmaylov A.R.

Card 6/7

MIRCHIYEV, Sh.F.

Twenty-five years in the service of the Azerbaijan petroleum
and ore mining industries. Iss.AN Azerb.SSR.Ser.geol.-geog.
nauk no.1:]-17 '58; (MIRA 11:12)
(Azerbaijan--Petroleum industry) (Azerbaijan--Mineralogy)

MEKHTIYEV, Sh.F.; YEREMENKO, N.A.

Present-day status of the problem of the origin of oil in relation
to the structure of pools. Uch. zap. AGU no.4:39-41 '58.
(MIRA 12:1)
(Petroleum geology)

MEKHTIYEV, Sh.F.

"General geology" by G.P. Gorshkov, A.F. IAkushova. Reviewed by Sh.F. Mekhtiev. Izv.vys.ucheb.zav.; geol. i razv. 1 no.11:123-125 N '58.

(MIRA 12:11)

1. Bakinskiy gosudarstvennyy universitet.
(Geology)

(G.P. Gorshkov) (IAkushova, A.F.)

MEKHTIYEV, Shafayat Farkhad oglы, akademik; AKHMEDBEILI, Farkhad Sultan oglы, kand.geol.-mineral.nauk; AGAHEKOV, M.G., dotsent, kand. geol.-mineral.nauk, red.; AL'ITMAN, T.B., red.izd-va

Naftalan. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhn. lit-ry, 1959. 127 p. (MIRA 13:11)

1. AN Azerb.SSR (for Mekhtiyev).
(Naftalan region--Petroleum geology)

ABRAMOVICH, M.V.; MEKHTIYEV, Sh.F.

Some results of studying bitumens in sedimentary rocks of
Azerbaijan. Uch.zap.AGU.Geol.-geog.ser. no.5:3-15 '59.
(MIRA 14:6)
(Azerbaijan--Bitumen--Geology)

ZHABREV, Daniil Vasil'yevich; MEKHTIYEV, Shafayat Farkhadovich; PUSTOVALOV,
L.V., otv.red.; DMITRIYEV, Ye.Ya., zam. otv.red.; TOPCHIYEV,
A.V., akademik, red.; MIRONOV, S.I., akademik, red.; ALIYEV,
M.M., red.; AKHMEDOV, G.A., red.; VARENTSOV, M.I., red.;
DOLGOPOLOV, N.N., red.; IL'IN, A.A., red.; MIRCHINK, M.F., red.;
KOZESSON, D.L., red.; FOMIN, A.V., red.; POLEVA, Ye.M., red.izd-va;
KASHINA, P.S., tekhn.red.

[Bituminology of the Tertiary complex of southeastern Azerbaijan]
K bituminologii tretichnogo kompleksa iugo-vostoka Azerbaidzhana.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 110 p. (MIRA 12:6)

1. Chlen-korrespondent AN AzSSR (for Mekhtiyev).
2. Chlen-korrespondent AN SSSR (for Pustovalov, Varentsov, Mirchink).
3. Deystvitel'nyy chlen AN AzSSR (for Aliyev).
(Azerbaijan--Bitumen)

3(5)

PHASE I BOOK EXPLOITATION

SOV/2302

Akademiya nauk Ukrainskoy SSR. Institut geologii poleznykh iskopayemykh

Problema migratsii nefti i formirovaniya neftyanykh i gazovykh skopleniy; materialy L'vovskoy diskussii 8-12 maya 1957 g. (Problem of Oil Migration and the Formation of Oil and Gas Accumulations; Materials of the Discussion Held in L'vov, May 8-12, 1957) Moscow, Gostoptekhizdat, 1959. 422 p. 1,100 copies printed.

Eds.: V. B. Porfir'yev, Academician of the Ukrainian SSR Academy of Sciences, and I. O. Brod, Professor; Exec. Ed.: P. R. Yershov; Tech. Ed.: A.S. Polosina; Editorial Board: I.O. Brod, Professor, N.R. Ladyzhenskiy, and V.B. Porfir'yev, Academician of the Ukrainian Academy of Sciences.

PURPOSE: This collection of articles is intended for a wide range of geologists and research workers interested in oil problems.

COVERAGE: Articles contained in this book deal with the problems of migration and accumulation of oil and gas. These problems were

Card 1/10

SOV/2302

Problem of Oil Migration (Cont.)

discussed in May 1957 at L'vov State University im. I. Franko at a meeting organized jointly by the Institute of Geology and Mineral Resources, Academy of Sciences of the USSR, the Department of Geology and Oil Exploration of the L'vov Polytechnic Institute, and the L'vov Geological Society. Theories on the origin of petroleum deposits and the conditions surrounding their occurrence are treated. There are 327 references: 232 Soviet, 86 English, 5 French, and 4 German.

TABLE OF CONTENTS:

3

Introduction

Opening Address by the President of the Organization Committee

5

of the Conference V.B. Porfir'yev

REPORTS

Brod, I.O. [MGU and Institut nefti]. On the Origin of Oil and Gas
Accumulations in the Light of the Theory of Source Beds

7

Dvali, M.F. [VNIGRI, Leningrad]. Factors and Processes in Primary

Card 2/10

Problem of Oil Migration (Cont.)

SOV/2302

25

Migration

Abramovich, M.A. Sh.F. Mekhtiyev, B.A. Gorin, G.A. Akhmedov, and S.G. Salayev. Formation of Oil-bearing Deposits in the Tertiary System of Azerbaydzhan 41

Sokolov, V.A. [Institut nefti]. The Possibility of the Formation and Migration of Oil in Late Sedimentary Deposits 59

Snarskiy, A.N. [Politekhnicheskiy Institut, L'vov]. Problems in Oil Migration and the Formation of Petroliferous Deposits 63

Kartsev, A.A. [Moskovskiy Institut im. I.M. Gubkina] Geochemical Criteria in the Study of the Formation of Oil Deposits 79

Balukhovskiy, N.F. [Institut geologicheskikh nauk AN UkrSSR] Formation of Gas and Oil Deposits in the Eastern Part of the Donets Downways 86

Shardanov, A.N. and I.M. Zhivitsa. Conditions for the Formation

Card 3/10

SOV/2302

Problem of Oil Migration (Cont.)

of Petroliferous Beds in the Tertiary Deposits of the Southern
Fringe of the Azovo-Kubanskiy Downways 98

Avrov, V.Ya. [VNIGRI] Basic Regularities in the Formation of Oil
Deposits in the Prikaspis'kaya Salt Dome Region 111

Linetskiy, V.F. [IGPI, AN UkrSSR] Anomalous Formation Pressure
as a Time Criterion in the Formation of Oil Deposits 121

Kudryavtsev, N.A. [VNIGRI, Leningrad] Mechanics of the Formation
of Oil and Gas Deposits 136

Kropotkin, P.N. and K.A. Shakhvarstova [Geologicheskiy Institut]
Solid Bitumens, Oil, and Hot Gases in Ultrabasic Intrusions,
Traps and Volcanic Necks 151

Porfir'yev, V.B. [Institut geologii poleznykh iskopayemykh AN.
UkrSSR] The Time Problem in the Formation of Oil Deposits 165

DISCUSSIONS

Card 4/10

SOV/2302

Problem of Oil Migration (Cont.)

- Mekhtiyev, Sh.F. [Institut geologii im. I.M. Gubkina, Azerbaydzan]
The Source Bed Characteristic of the Lower Part Deposits in the
Productive Series (Middle Pliocene) of Azerbaydzhan 194
- Kozlenko, S.P. and K. A. Mashkovich. [VNIGNI Branch, Saratov] The
Age of Oil and Gas Traps as a Criterion for Forecasting Their Oil-
bearing Capacity 202
- Elinson, M.M. [MGRI, Moscow] Distribution of Heavy Hydrocarbons
Under Various Geological Conditions 208
- Vyalov, O.S. On the Question of Oil in the Antarctic Region 210
- Veber, V.V. [VNIGNI, Moscow] Formation of Oil Deposits and Facies
of Sedimentation 211
- Vydrin, D.I. [Krasnodarneftegazvedka] New Data on the Geology of
the Oil-and Gas-bearing Possibilities in the Western Caucasus and
Predkavkaz'ye 217

Card 5/10

SOV/2302

Problem of Oil Migration (Cont.)

Moseyev, V.Ye. [Gornyy okrug, L'vov] Information on the Oil-bearing Possibilities of China	228
Agabekov, M.G. [Institut geologii im. Gubkina, Baku] The Ways of Oil Migration and the Formation of Deposits in the Productive Series of the Prikurinskaya (Kura) Lowland and the B _a kinskiy (Baku) Archipelago	233
Geller, Ye.M. [Lower Volga Branch of VNIGNI, Saratov] The Problem of the Diffusive Dispersion of Gas Deposits	241
Sokolov, V.A. The Diffusive Dispersion of Gas Deposits (a reply to Ye.M. Geller's report)	251
Dolenko, G.N. [Institut geologii poleznykh iskopayemykh, L'vov] Conditions of Oil Deposit Formations in the Eastern Carpathian Mountains	257
Krayushkin, V.A. [Institut geologii poleznykh iskopayemykh, L'vov] Basic Principles of Oil and Gas Accumulation in a Chain of Connected Traps	267

Card 6/10

Problem of Oil Migration (Cont.)

SOV/2302

- Kopystyanskiy, R.S. [Institut geologii poleznykh iskopayemykh, L'vov] The Significance of Fissuring in the Formation of Oil Deposits 277
- Kityk, V.I. [Institut geologii poleznykh iskopayemykh, L'vov] Conditions of Oil and Gas Deposit Formation in the Dneprovsko-Donetskaya Depression 283
- Sinichka, A.M. [L'vovskiy politekhnicheskiy institut] Formation of Oil and Gas Deposits in the Dneprovsko-Donetskaya Depression 294
- Gabil'yan A.M. [Institut geologii, Tashkent] The Problem of the Formation of Oil and Gas Deposits Illustrated by the Deposits in Eastern Central Asia 296
- Potapov, I.I. [State University, Rostov] Conclusions on the Formation of Oil Deposits in the Apsheronskaya Region 302
- Smekhov, Ye.M. [VNIGRI, Leningrad] The Significance of Ruptures in the Formation of Oil Deposits on Sakhalin and Latest Information

Card 7/10

Problem of Oil Migration (Cont.)	SOV/2302
on Fissured Reservoirs	306
Andreyev, P.F. [VNIGRI, Leningrad] Migration Processes in the Subcapillary Channels of Mobile Products Formed From the Dispersed Organic Matter in Sediments	311
Uspenskiy, P.F. [VNIGRI, Leningrad] The Ways of Oil Transformation in Deposits	318
Bogomolov, A.I. [VNIGRI, Leningrad] The Problem of Oil Composition Changes Depending on the Age of the Enclosing Rocks	322
Radchenko, O.A. [Laboratoriya uglya] The Initial Stage of Oil Migration	326
Grinberg, I.V. [Institut geologii poleznykh uskopalayemykh, L'vov] Problems in Genetic Relationship Between the Organic Kerogen and Natural Oil	329
Dolitskiy, B.A. [Institut nefti, Moscow] Problems of Oil Deposit Formation in the Devonian of the Russian Platform	343

Card 8/10